

Description: This DTC sets when the variable camshaft timing (VCT) position is over-advanced during cold start up. The test fails when the camshaft timing exceeds a maximum calibrated value or remains in an advanced position.

Possible Causes:

- Camshaft timing incorrectly set
- Continuous oil flow to the VCT piston chamber
- Variable camshaft timing bank 1 solenoid 2 (VCT12) valve stuck open
- Camshaft advance mechanism binding (VCT unit)

Diagnostic Aids: This DTC is a functional check of the VCT unit. Diagnose any base engine concerns related to the engine oil pressure or engine timing. Refer to the service information , Engine System, Oil Pressure Test, to check the engine oil pressure. Refer to the service information , Engine, Timing Drive Components, to check the engine timing.

Application	Key On Engine Off	Key On Engine Running	Continuous Memory
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DIAGNOSTIC TROUBLE CODE (DTC) CHARTS AND DESCRIPTIONS > P054B - COLD START EXHAUST (B) CAMSHAFT POSITION TIMING OVER-RETARDED (BANK 1) - DTC CHART

P054B - COLD START EXHAUST (B) CAMSHAFT POSITION TIMING OVER-RETARDED (BANK 1) - DTC CHART

Description: This DTC sets when the variable camshaft timing (VCT) position is over-retarded during cold start up. The test fails when the camshaft timing exceeds a maximum calibrated value or remains in a retarded position.

Possible Causes:

- Camshaft timing incorrectly set
- Continuous oil flow to the VCT piston chamber
- Variable camshaft timing bank 1 solenoid 2 (VCT12) valve stuck open
- Camshaft advance mechanism binding (VCT unit)

Diagnostic Aids: This DTC is a functional check of the VCT unit. Diagnose any base engine concerns related to the engine oil pressure or engine timing. Refer to the service information , Engine System, Oil Pressure Test, to check the engine oil pressure. Refer to the service information , Engine, Timing Drive Components, to check the engine timing.

Application	Key On Engine Off	Key On Engine Running	Continuous Memory
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